

T3MK75F16SD (Kit)

Access & Power Integration Solution for Mercury

TROVE™

Altronix T3MK75F16SD kit consists of Trove3 enclosure and TM3 Altronix & Mercury backplane with 24VDC @ 10A and 12VDC @ 10A power supply/chargers, two (2) eight (8) PTC protected output power distribution modules and two (2) eight (8) PTC protected output access control modules. This kit also accommodates various combinations of Mercury* boards for up to sixteen (16) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

***Also compatible with these authentic Mercury partners:**

AccessNsite, Avigilon, BadgePass, BluBox, Feenics, Genetec, Identocard, IMRON, Johnson Controls, Kastle, Keri Systems, Lenel/S2, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic Video Insight, Quintron, RS2, Schneider Electric, Vanderbilt

**T3MK75F16SD***Mercury boards are not included***Key Features**

- 24VDC and 12VDC power supply/chargers
- Accommodates the following Mercury controllers:
Mercury: LP1501, LP1502, LP2500, LP4502, MR16IN, MR16OUT, MR50, MR52, MR62e, MUX8
- Convenient knockout configuration:
 - One (1) single knockout 2.415" (2" Conduit)
 - Two (2) double knockouts
1.948" (1.5" Conduit) / 1.701" (1.25" Conduit)
 - Thirteen (13) double knockouts
1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- Supervision
 - AC Fail
 - Low Battery and Battery Presence
 - Low power shutdown
- Agency Listings:
 - All Altronix components of this Trove kit are UL Listed sub-assemblies. Please refer to the Sub-Assembly Installation Guides for further information
 - UL: UL294 - Access Control System
 - cUL: CAN/ULC - s319-05 - Electronic Access Control Systems
 - CE European Conformity
- Lifetime Warranty*

**Altronix Power Supply/Chargers and Sub-Assemblies only*

Specifications

Power Supply/Charger 1 (eFlow104NB):

Input

| | |
|------------|--------------------|
| Voltage | 120VAC, 60Hz, 4.5A |
| Input Fuse | 6.3A/250V |

Output

| | |
|------------|--|
| Voltage | 24VDC @ 10A. |
| Auxiliary | 1A (unswitched) |
| Protection | Overvoltage protection. Filtered and regulated |

Power Supply/Charger 2 (eFlow102NB):

Input

| | |
|------------|--------------------|
| Voltage | 120VAC, 60Hz, 3.5A |
| Input Fuse | 5A/250V |

Output

| | |
|------------|--|
| Voltage | 12VDC @ 10A |
| Auxiliary | 1A (unswitched) |
| Protection | Overvoltage protection. Filtered and regulated |

Both Power Supplies:

Battery Charging

| | |
|-------------------------------|--|
| Capacity | 12VDC/12AH (4 within enclosure) 40AH/65AH (requires separate enclosure) |
| Type | Sealed lead acid or gel type |
| Fallover | Upon AC loss, instantaneous |
| Batteries are sold separately | |

Fire Alarm Disconnect

| | |
|------------|--------------------------|
| Supervised | Latching or non-latching |
| EOL | 10K Resistor |

Supervision

| | |
|------------|-------------------|
| AC Failure | Form "C" contacts |
| Battery | Form "C" contacts |

Low DC Power Shutdown

Shuts down DC output terminals if battery voltage drops below 71-73% for 12V units and 70-75% for 24V units (depending on the power supply). Prevents deep battery discharge

Indicators (LED)

| | |
|-----------|-----------------------------|
| AC Input | 120VAC is present |
| DC Output | Powered |
| Battery | Discharged or not connected |

Two (2) Dual Input Power Distribution Modules (PDS8CB):

Input

| | |
|------------|--|
| Voltage | 24VDC from eFlow104NB and 12VDC from eFlow102NB |
| Input PTCs | 9A |

Outputs

| | |
|--|--------------------|
| Voltage | 12VDC and/or 24VDC |
| Any of the eight (8) power outputs are selectable to follow power Input 1 or Input 2 | |
| Individual outputs may be set to OFF position for servicing | |
| Output PTCs | 2.5A |

Indicators (LED)

| | |
|-----------|----------------------------------|
| DC Output | Eight (8) individual output LEDs |
| Green: | 12VDC |
| Red: | 24VDC |

Two (2) Dual Input Access Power Controllers (ACMS8CB):

Input

| | |
|------------|--|
| Voltage | 24VDC from eFlow104NB and 12VDC from eFlow102NB |
| Input PTCs | 9A |

Outputs

| | |
|---|-------------------------------------|
| Voltage | 12 or 24VDC individually selectable |
| Eight (8) selectable 12VDC - 24VDC independently controlled outputs or eight (8) independently controlled Form "C" relay outputs: | |
| a) Fail-Safe and/or Fail-Secure power outputs | |
| b) Form "C" Relays. 28VAC or VDC @ 2.5A Rated | |
| c) Auxiliary power outputs (unswitched) | |
| d) Any combination of the above | |

Any of the eight (8) PTC protected power outputs are selectable to follow power Input 1 or Input 2

Individual outputs may be set to OFF position for servicing

| | |
|-------------|------|
| Output PTCs | 2.5A |
|-------------|------|

Indicators (LED)

| | |
|--------------------------|--|
| Red LEDs | Outputs are triggered (relays energized) |
| Blue LED | FACP disconnect is triggered |
| Individual voltage LEDs: | |
| Green: | 12VDC |
| Red: | 24VDC |

T3MK75F16SD Kit:

Agency Listings

All components of this Trove kit are UL Listed sub-assemblies. Please refer to the corresponding Sub-Assembly Installation Guides for further information

CE European Conformity

Physical and Environmental

Dimensions (H x W x D)

Enclosure: 36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm)
Shipping: 40.75" x 35.25" x 12" (1035.1mm x 895.4mm x 304.8mm)

Weight (approx.)

| | |
|----------|---------------------|
| Product | 84.2 lb. (38.2 kg) |
| Shipping | 97.5 lb. (44.22 kg) |

Temperature

| | |
|-----------|---------------------------------|
| Operating | 0°C to 49°C (32°F to 120°F) |
| Storage | - 20°C to 70°C (- 4°F to 158°F) |

Relative Humidity

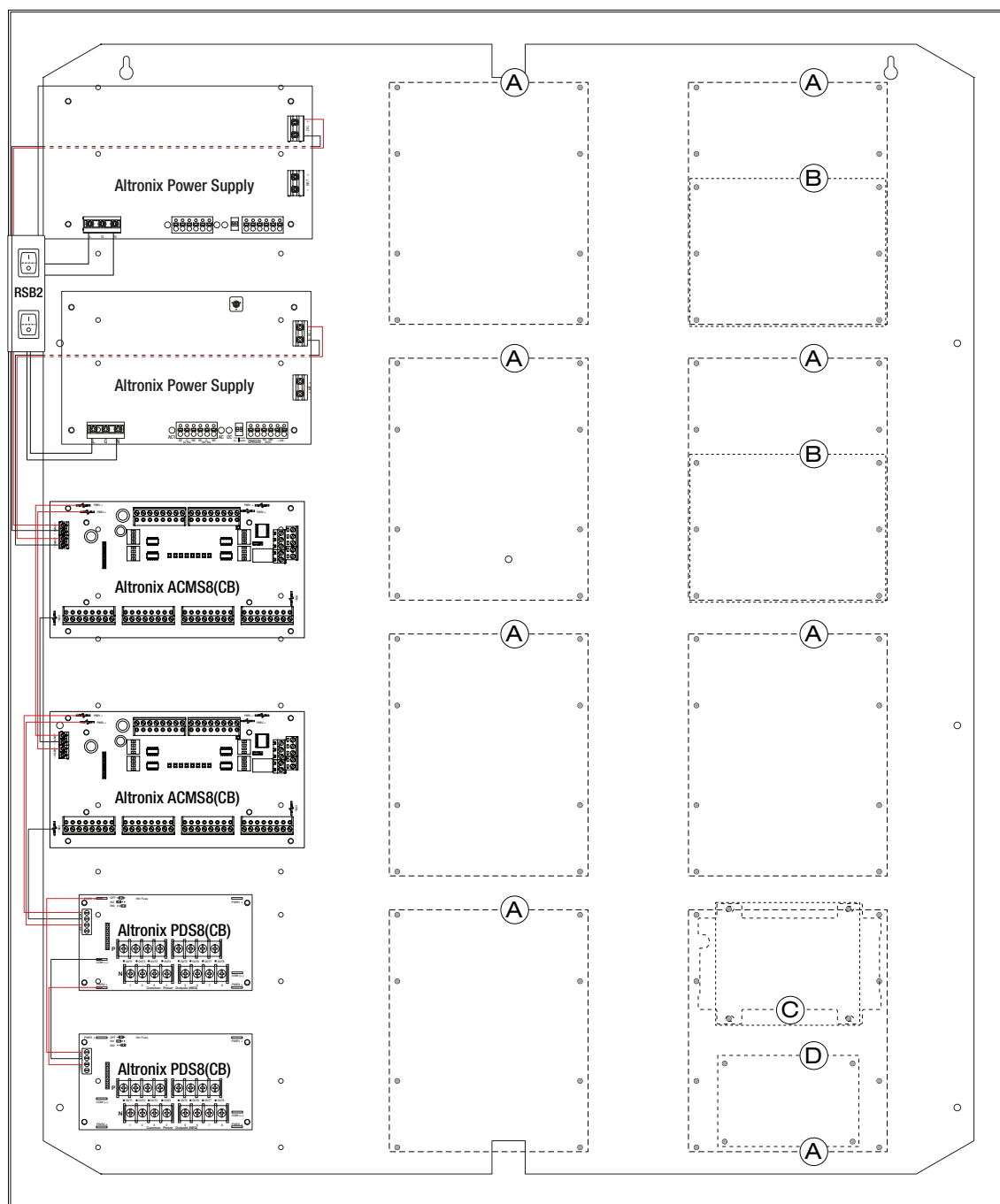
85% +/- 5%

BTU/Hr (approx.):

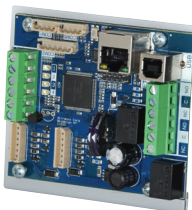
217 BTU/Hr.

Access Controller Position Chart for the Following Models:

| Altronix/Mercury | Pem Mounting |
|---------------------------------------|--------------|
| LP2500, MUX8 | (A) |
| LP1502, LP4502, MR52, MR16IN, MR16OUT | (B) |
| LP1501, MR62e | (C) |
| MR50 | (D) |



Accessories (order separately)



LINQ2

LINQ2 - Network Supervision

Altronix LINQ2 Network Communication Module provides remote supervision, control and monitoring over LAN/WAN

- Remotely reports accurate power diagnostics
- Controls power and resets devices
- Reports system diagnostics via Email



WM5

WM5, WM25, WM100 - Magnetic Cable Tie Mounts

Altronix WM5, WM25, and WM100 are packs of 5, 25 or 100 magnetic cable tie mounts respectively. They accommodate standard zip ties or velcro straps. These are ideal for wire management in our Trove series.



Mounting Magnet

MM4, MM8, MM12, MM24 - Magnetic Mounting Solution

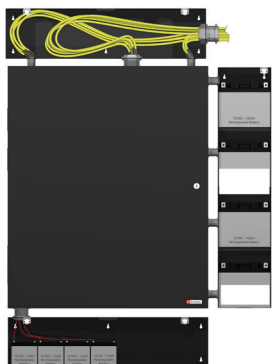
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.



BR1

BR1 - Sub-Assembly Mounting Bracket

Altronix BR1 mounting bracket is compatible with Altronix Maximal and Trove enclosures. It allows to mount one (1) PD4UL(CB), PD8UL(CB), ACM4(CB), MOM5, VR6, PDS8, NetWay5B or LINQ8PD(CB) sub-assembly on the enclosure's inside wall, saving valuable space.



TROVE3BWC / TROVE3SWC - Battery/Wire Trough Enclosure

Altronix Trove3BWC and Trove3SWC are dual-purpose enclosures that can be used as wiring troughs or battery cabinets when mounted above or below (Trove3BWC) or on either side (Trove3SWC) of the Trove integrated power and access solution. The knockouts on the Trove3BWC and Trove3SWC have been strategically placed to line up with the Trove3 allowing for easy conduit connections between cabinets. Trove3BWC and Trove3SWC include cam locks and 2 tamper switches each to ensure access to wiring and batteries is secure.

Typical battery/wiring setup with Trove3 Enclosure (not included)

Dimensions and Drawing

Dimensions (H x W x D approximate)

36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm)

